

# Butterfly Valves: Torque, Head Loss, and Cavitation Analysis

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**AWWA MANUAL M49**

*Second Edition*



**American Water Works  
Association**

# Awwa Manual M49

**AWWA Staff**



## **Awwa Manual M49:**

**M49 Quarter-turn Valves** Bayard E. Bosserman (II), John R. Holstrom, 2017 This manual presents a recommended method for calculating operating torque head loss and cavitation for quarter turn valves typically used in water works service M49 also provides guidance on generally available methods for using quarter turn valves as well as their cavitation flow and torque characteristics This third edition has broadened the application of the methods discussed to include other quarter turn valves such as ball plug and rotary cone valves Additionally new information on Equivalent Resistant System Model has also been included Information in this manual is useful for technicians and engineers who want a basic understanding of the calculations associated with the use and specification of quarter turn valves **Butterfly Valves** AWWA Staff, 2000-06

Quarter-Turn Valves American Water Works Association, 2024 The purpose of this manual is to present a recommended method for calculating operating torque head loss and cavitation for quarter turn valves typically used in water works service The text provides guidance on generally available methods for using quarter turn valves as well as their cavitation flow and torque characteristics Information in this manual is useful for technicians and engineers who want a basic understanding of the calculations associated with the use and specification of quarter turn valves Prior editions limited this manual to butterfly valves This fourth edition has been expanded to include information on other quarter turn valves including ball rotary cone and eccentric plug valves Quarter-turn Valves Bayard E. Bosserman (II), John R. Holstrom, 2017 Recommended methods for calculating operating torque head loss and cavitation for quarter turn valves typically used in water works service M49 also provides guidance on generally available methods for using quarter turn valves as well as their cavitation flow and torque characteristics Butterfly Valves American Water Works Association, Bayard E. Bosserman, Amzad Ali, Irving M. Schuraytz, 2012 Updated from the 2001 edition this new manual has expanded equations for eccentricity torque added torque sign conventions and double offset disc design variables Water operators receive complete information about the versatile butterfly valve in drinking water service Engineers and technicians will gain a basic understanding of calculations for operating torque head loss and cavitation Coverage includes valve design torque head loss cavitation testing noise and vibration *Corrosion Policy Decision Making* Reza Javaherdashti, 2021-12-29 CORROSION POLICY DECISION MAKING Explore the science management economy ecology and engineering of corrosion management and prevention In Corrosion Policy Decision Making distinguished consultant and corrosion expert Dr Reza Javaherdashti delivers an insightful overview of the fundamental principles of corrosion with a strong focus on the applicability of corrosion theory to industrial practice The authors demonstrate various aspects of smart corrosion management and persuasively make the case that there is a real difference between corrosion management and corrosion knowledge management The book contains seven chapters that each focuses on one important aspect of corrosion and corrosion management Corrosion management is an issue that is not just corrosion science or corrosion engineering but rather a combination of both elements To cover this paradoxical aspect of

corrosion management chapter 2 deals with some basic introductory concepts and principles of corrosion and coating painting an important corrosion protection method while chapter 3 explains the elements of smart corrosion management in detail Another important principle of smart corrosion management is to be able to study the cost of corrosion chapter 4 introduces important points in the economics involved in a smart corrosion management As indicated earlier corrosion engineering is also an integral part of corrosion management and thus chapter 5 looks at the engineering side of corrosion by detailing the example of Process Additives EMPA Chapter 6 for the first time looks at the possibility of using TRIZ algorithm of invention in corrosion management Finally chapter 7 presents the necessary elements for building a model that would explore the mutual interaction between corrosion and environment mainly by exploring the difference between environmental impact and environmental effect Chapter 7 is also very important because the four models so far applied to estimate the cost of corrosion Uhlig Method Hoar Method I O method and LCC method are not capable of suggesting any clear model or a sensible way of exploring the elements necessary to explain the impact of indirect costs of corrosion the most important of which being environmental damages imposed by corrosion This book is ideal for engineers students and managers working or studying corrosion Corrosion Policy Decision Making is also an indispensable resource for professionals in the fields of upstream and downstream on shore off shore oil and gas transportation mining power generation as well as major sectors of other strategic industries

**Water Transmission and Distribution** American Water Works Association, 2003 Water distribution systems are made up of pipe valves and pumps through which treated water is moved from the treatment plant to homes offices industries and other consumers The types of materials and equipment used by each water system are usually governed by local conditions past practices and economics Consequently drinking water professionals must be knowledgeable about common types of equipment and operating methods that are available Completely revised and updated Water transmission and distribution includes information on the following distribution system design and operation and maintenance piping materials valves pumps and water meters water main installation backfilling main testing and installation safety fire hydrants water storage water services cross connection control motors and engines instrumentation and control information management and public relations Cover page 4 Butterfly Valves -

Torque, Head Loss, and Cavitation Analysis American Water Works Association, 2001 Recommended practices calculations and data for correctly specifying and using butterfly valves in any water piping system Second edition *Water*

*Transmission and Distribution*, 2010 **On-site Generation of Hypochlorite** American Water Works Association, 2015 As more water systems turn to safer alternatives to chlorine gas the generation of hypochlorite on site has become increasingly common M65 On Site Generation of Hypochlorite presents the principles of on site generation OSG the differences between low strength and high strength OSG systems and the subsequent impact each of these systems has on design construction and maintenance for water and wastewater utilities M65 provides operators and engineering staff with a basic understanding

of how to design and install both low and high strength OSG systems how they work and how they compare with other popular forms of chlorine currently on the market A cost analysis and an examination of how OSG affects disinfection by product formation are also included This manual should help operators planners management and engineers improve their decision making processes about OSG systems using a holistic risk management approach that considers not only triple bottom line approaches but also the specific regional situation when choosing a chlorination system Need it now Learn about AWWA s digital downloads *Pumping Station Design* Garr M. Jones PE DEE, Robert L. Sanks PhD PE, 2011-04-19 *Pumping Station Design* 3e is an essential reference for all professionals From the expert city engineer to the new design officer this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well integrated pumping station that is reliable easy to operate and maintain and free from design mistakes The depth of experience and expertise of the authors contributors and peers reviewing the content as well as the breadth of information in this book is unparalleled making this the only book of its kind An award winning reference work that has become THE standard in the field Dispenses expert information on how to produce a well integrated pumping station that will be reliable easy to operate and maintain and free from design mistakes 60% of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 New material added to this edition includes the latest design information the use of computers for pump selection extensive references to Hydraulic Institute Standards and much more American Book Publishing Record ,2001 **American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography, 1978 *Fundamentals and Control of Nitrification in Chloraminated Drinking Water Distribution Systems* American Water Works Association, 2006 This new manual provides a compendium of the current state of the art knowledge regarding the increased use of chloramine as a residuals in drinking water distribution systems Chapters cover background information on the occurrence and microbiology of nitrification in various water environments and provide current practical approaches to nitrification prevention and response **Air-release, Air/vacuum, and Combination Air Valves** AWWA Staff, 2001 The American Water Works Association had this guide written to assist those who will choose locate and or install air valves for water use it doesn t contain the AWWA standard which is a separate publication The use and principles of air valves are discussed in an introduction the remainder of **Simplified Procedures for Water Examination** American Water Works Association, 1975 **Simplified Procedures for Water Examination** AWWA Staff, 2002 Reliable water quality testing forms the basis for regulatory compliance and ensures the best possible quality drinking water for the community This manual provides 30 common lab tests for process control in drinking water production Each test includes purpose of test equipment list reagents simplified methods and procedures and warnings and cautions **Water Audits and Leak Detection; AWWA Manual M36, Second Edition** AWWA Staff, 2011-01-12 *Distribution Valves* AWWA Staff, 2006 Manual of Water Supply Practices American Water Works

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